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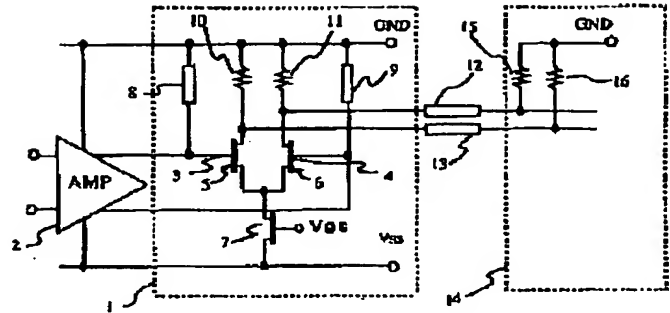
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APPLICANT : HITACHI VLSI ENG CORP;

INVENTOR : TAUCHI YOSHIO;

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TITLE : OUTPUT BUFFER CIRCUIT AND
DRIVER FOR OPTICAL MODULATOR



ABSTRACT : **PROBLEM TO BE SOLVED:** To reduce ringing of an output signal without losing an ultrahigh speed performance even when the output buffer circuit is employed in a package of an integrated circuit in which a characteristic impedance of a transmission line such as lead wires does not match a desired impedance with high precision.

SOLUTION: In the buffer circuit 1 that slices an input signal at a prescribed level and providing a resulting output, a filter 8, 9 is provided between a gate terminal 3, 4 of a couple of differential FETs 5, 6 receiving the output signal of an amplifier 2 of a pre-stage and a ground terminal GND. A component of a frequency higher than a frequency of a signal outputted from the output buffer circuit 1 is eliminated among frequency components of signals given to the gate terminals 3, 4 by the filters 8, 9 to suppress ringing of a signal outputted from the output buffer circuit 1 while keeping the high speed performance of an integrated circuit employing the output buffer circuit 1.

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